

**125 AMP PROFESSIONAL GRADE PLASMA METAL CUTTING & GOUGING SYSTEM ORDERING
SPECIFICATIONS
DOCUMENT # 61653342**

1. MUST BE ABLE TO FINISH CUT UP TO 1-1/2" METAL AT A SPEED OF 18 INCHES PER MINUTE AND 1-3/4" METAL AT A SPEED OF 10 INCHES PER MINUTE
2. MUST BE ABLE TO SEVERANCE CUT UP TO 2-1/4" METAL AT A SPEED OF AT LEAST 5 INCHES PER MINUTE
3. MUST BE ABLE TO PIERCE UP TO 1" METAL
4. MUST HAVE A GOUGE REMOVAL RATE OF UP TO 27.6 LBS. OF METAL PER HOUR AND ACHIEVE A GOUGE PROFILE OF 0.17" - 0.31" DEEP X 0.24" - 0.39" WIDE
5. MUST BE AIR COOLED
6. ACCESSORY TORCH MUST HAVE ELECTRODE END OF LIFE DETECTION FEATURE OR EQUAL TO PROTECT THE TORCH AND WORKPIECE FROM DAMAGE BY AUTOMATICALLY STOPPING POWER WHEN THE ELECTRODE IS OVERUSED.
7. MUST HAVE SMART SENSE TECHNOLOGY OR EQUAL THAT AUTOMATICLY MAKES SURE THE PRIMARY AND SECONDARY AIR PRESSURE IS SET CORRECTLY FOR THE CUTTING/GOUGING OPERATION BEING PERFORMED
8. MUST HAVE QUICK CHANGE TORCHES THAT ARE EASILY REMOVED OR INSTALLED TO CHANGE FROM ONE TORCH STYLE TO ANOTHER
9. MUST OFFER A FULL LENGTH AND A MINI MACHINE TORCH AND HAND HELD TORCHES WITH HEAD ANGLES OF 85 DEGREES AND 15 DEGREES
10. MUST HAVE HIGH-IMPACT AND HEAT RESISTANT LOW MAINTAINENCE ACCESSORY TORCHES DESIGNED TO OPERATE IN AN INDUSTRIAL ENVIRONMENT
11. ACCESSORY TORCHES MUST HAVE SPRING START FEATURE OR EQUAL TO ENSURE CONSISTENT STARTING AND MORE TORCH RELIABILITY
12. MUST HAVE INPUT VOLTAGES OF 480/600 V, 3-PH, 50/60 Hz
13. MUST HAVE INPUT CURRENT OF 480/600 V, 31/34 A @ 21.9 Kw
14. RATED OUTPUT VOLTAGE MUST BE 175 VDC
15. MUST HAVE 100% DUTY CYCLE AT 104 DEGREES F @ 125 A, 480/600 V, 3 PHASE
16. OPEN CIRCUIT VOLTAGE MUST BE 320 OCV